NETRONICS R & D LTD.

NEW MILFORD, CONN.

ASSEMBLY/USER MANUAL

VOX II ELECTRIC MOUTH WORD SET

VOXII.RVA

PLEASE CHECK THE PARTS RECEIVED AGAINST THE PARTS LIST BELOW. NOTE THAT NO REFUNDS ARE POSSIBLE AFTER CONSTRUCTION HAS BEEN STARTED.

PARTS LIST

PART #	DESCRIPTION	QUANTITY
IC-128	IC, MM 52164SJCM/N(SSR5)	1
IC-129	IC, MM 52164SJCRN(SSR6)	1
AM-331	INSTRUCTION MANUAL	1

NOTE* USE THE NEW VOX II WORD LIST SUPPLIED IN THIS MANUAL. THE OLD LIST MAY NOT BE ACCURATE.

S100/TRS80 BOARD

IC U3 MM52164SJCM/N(SSR5)
IC U4 MM52164SJCR/N(SSR6)

ELF/86 BUS BOARD

IC U4 MM52164SJCM/N(SSR5)
IC U5 MM52164SJCR/N(SSR6)

APPLE BOARD

IC U4 MM52164SJCM/N(SSR5)
IC U5 MM52164SJCR/N(SSR6)

TO ADDRESS THE VOX II ROMS SEE EXAMPLES BELOW. (USE THE NEW VOX II WORD LIST SUPPLIED IN THIS MANUAL. THE OLD LIST MAY NOT BE ACCURATE.

S100/TRS80 (ALSO SEE PAGE 5 OF ELECTRIC MOUTH MANUAL)

THE SECOND DIGIT OF THE OUTPUT PORT SELECTED DETERMINES WHICH WORD SET IS USED. TO ADDRESS THE SECOND WORD SET (VOX II) THE SECOND DIGIT OF THE OUTPUT PORT MUST BE 2. THEREFORE IF YOU ARE USING PORT 80 FOR THE FIRST WORD SET THE SECOND WORD SET IS ADDRESSED AT 82 THE INPUT PORT TO TEST FOR BUSY IS NOT CHANGED AND REMAINS AT 80.

THE FOLLOWING PROGRAM WILL OUTPUT THE ENTIRE VOX II WORD LIST.

```
10   FOR J = 0 TO 130              (82HEX = 130 DECIMAL)
20   OUT 130, J
30   A = INP(128)
40   IF A = 255 THEN 30
50   NEXT J
60   END
RUN
```

ELF/86 BUS (SEE PAGE 5 OF ELF ELECTRIC MOUTH ASSEMBLY MANUAL)

TO ADDRESS THE VOX II WORD SET THE 1ST LEVEL I/O OUTPUT INSTRUCTION MUST BE 63FD(253DECIMAL). SIMPLY CHANGE THE FC TO FD IN THE PROGRAM EXAMPLES GIVEN.

SAMPLE TINY BASIC PROGRAM (WAIT REQUIRED)

```
 10   OUT 3,253
 20   OUT 6,0
 30   GOSUB 100
 40   IF A = 130 THEN END
 50   OUT 6,A
 60   GO TO 30
100   A = A+1
101   RETURN
```

APPLE (SEE PAGE 5 IN ELECTRIC MOUTH ASSEMBLY MANUAL)

LOOK UP ADDRESS REQUIRED FOR VOX II PROGRAMS AND MODIFY TEST PROGRAMS GIVEN.

SAMPLE PROGRAM FOR USE WITH APPLE SOFT BASIC (SLOT 3)

```
10   B = -16206
20   FOR J = 0 TO 130
30   POKE B,J
40   A = PEEK(B)
50   IF A = 255 THEN 40
60   NEXT J
70   END
```

DISREGARD ORIGINAL VOX II WORD LIST.

VOX II WORD LIST WITH DECIMAL & HEX ADDRESSES

WORD	DEC ADDR	(HEX)	WORD	DEC ADDR	(HEX)
ABORT	0	00	FLOOR	50	32
ADD	1	01	FORWARD	51	33
ADJUST	2	02	FROM	52	34
ALARM	3	03	GAS	53	35
ALERT	4	04	GET	54	36
ALL	5	05	GOING	55	37
ASK	6	06	HALF	56	38
ASSISTANCE	7	07	HELLO	57	39
ATTENTION	8	08	HELP	58	3A
BRAKE	9	09	HERTZ	59	3B
BUTTON	10	0A	HOLD	60	3C
BUY	11	0B	INCORRECT	61	3D
CALL	12	0C	INCREASE	62	3E
CAUTION	13	0D	INTRUDER	63	3F
CHANGE	14	0E	JUST	64	40
CIRCUIT	15	0F	KEY	65	41
CLEAR	16	10	LEVEL	66	42
CLOSE	17	11	LOAD	67	43
COMPLETE	18	12	LOCK	68	44
CONNECT	19	13	MEG	69	45
CONTINUE	20	14	MEGA	70	46
COPY	21	15	MICRO	71	47
CORRECT	22	16	MORE	72	48
DATE	23	17	MOVE	73	49
DAY	24	18	NANO	74	4A
DECREASE	25	19	NEED	75	4B
DEPOSIT	26	1A	NEXT	76	4C
DIAL	27	1B	NO	77	4D
DIVIDE	28	1C	NORMAL	78	4E
DOOR	29	1D	NORTH	79	4F
EAST	30	1E	NOT	80	50
ED(NOTE 1)	31	1F	NOTICE	81	51
ED(NOTE 1)	32	20	OHMS	82	52
ED(NOTE 1)	33	21	ONWARD	83	53
ED(NOTE 1)	34	22	OPEN	84	54
EMERGENCY	35	23	OPERATOR	85	55
END	36	24	OR	86	56
ENTER	37	25	PASS	87	57
ENTRY	38	26	PER	88	58
ER	39	27	PICO	89	59
EVACUATE	40	28	PLACE	90	5A
EXIT	41	29	PRESS	91	5B
FAIL	42	2A	PRESSURE	92	5C
FAILURE	43	2B	QUARTER	93	5D
FARAD	44	2C	RANGE	94	5E
FAST	45	2D	REACH	95	5F
FASTER	46	2E	RECEIVE	96	60
FIFTH	47	2F	RECORD	97	61
FIRE	48	30	REPLACE	98	62
FIRST	49	31	REVERSE	99	63

VOX II WORD LIST WITH DECIMAL & HEX ADDRESSES (CONTINUED)

WORD	DEC ADDR	(HEX)
ROOM	100	64
SAFE	101	65
SECURE	102	66
SELECT	103	67
SEND	104	68
SERVICE	105	69
SIDE	106	6A
SLOW	107	6B
SLOWER	108	6C
SMOKE	109	6D
SOUTH	110	6E
STATION	111	6F
SWITCH	112	70
SYSTEM	113	71
TEST	114	72
TH(NOTE2)	115	73
THANK	116	74
THIRD	117	75
THIS	118	76
TOTAL	119	77
TURN	120	78
USE	121	79
UTH(NOTE3)	122	7A
WAITING	123	7B
WARNING	124	7C
WATER	125	7D
WEST	126	7E
WHICH	127	7F
WINDOW	128	80
YES	129	81
ZONE	130	82

NOTE 1: "ED" IS A SUFFIX THAT CAN BE USED TO MAKE ANY PRESENT TENSE WORD BECOME A PAST TENSE WORD. THE WAY WE SAY "ED" HOWEVER, DOES VARY FROM ONE WORD TO THE NEXT. FOR THAT REASON, WE HAVE OFFERED 4 DIFFERENT "ED" SOUNDS. IT IS SUGGESTED THAT EACH "ED" BE TESTED WITH THE DESIRED WORD FOR BEST QUALITY RESULTS. ADDRESS 31 "ED" OR 32 "ED" SHOULD BE USED WITH WORDS ENDING IN "T" OR "D" SUCH AS EXIT OR LOAD. ADDRESS 34 "ED" SHOULD BE USED WITH WORDS ENDING WITH SOFT SOUNDS SUCH AS ASK. ADDRESS 33 "ED" SHOULD BE USED WITH ALL OTHER WORDS.

NOTE 2: "TH" IS A SUFFIX THAT CAN BE ADDED TO WORDS LIKE SIX, SEVEN, EIGHT TO FORM ADJECTIVE WORDS LIKE SIXTH, SEVENTH, EIGHTH.

NOTE 3: "UTH" IS A SUFFIX THAT CAN BE ADDED TO WORDS LIKE TWENTY, THIRTY, FORTY TO FORM ADJECTIVE WORDS LIKE THIRTIETH, FORTIETH, ETC.

NOTE 4: ADDRESS 130 IS THE LAST LEGAL ADDRESS IN THIS PARTICULAR WORD LIST. EXCEEDING ADDRESS 130 WILL PRODUCE PIECES OF UNINTELLIGIBLE INVALID SPEECH DATA.

EXTERNAL SPEAKER: TO USE AN EXTERNAL SPEAKER SIMPLY TURN OFF THE ON BOARD SPEAKER (SW-1) AND PLUG IN ANY 8 OHM SPEAKER OR ADDITION POWER AMPLIFIER INTO THE EXT SPEAKER JACK J1.

LIMITED WARRANTY

ALL COMPONENTS IN THIS KIT (THE COMPLETE ASSEMBLY IF PURCHASED ASSEMBLED) ARE WARRANTEED FOR SIX MONTHS FROM THE DATE OF PURCHASE. DEFECTIVE PARTS WILL BE REPLACED OR REPAIRED FREE OF CHARGE IF THEY ARE RETURNED WITHIN SIX MONTHS WITH $1.00 EACH, TO COVER THE COST OF TESTING THE RETURNED PART. NO PAYMENT REQUIRED IF THE PRODUCT WAS PURCHASED ASSEMBLED.

RETURN PARTS IN A STURDY CARTON, PREPAID AND INSURED TO:

NETRONICS R & D LTD.
333 LITCHFIELD ROAD
NEW MILFORD, CONN. 06776

ENCLOSE A NOTE DESCRIBING THE DEFECTS. THIS WARRANTY APPLIES ONLY TO PARTS WHICH HAVE NOT BEEN MISUSED, INSTALLED IMPROPERLY, OR OTHERWISE DESTROYED BY THE USER.

IN CASE OF DIFFICULTY

IF AFTER CHECKING YOUR WORK CAREFULLY YOU ARE STILL NOT OBTAINING SATISFACTORY RESULTS, THE FACTORY SERVICE DEPARTMENT WILL INSPECT, REPAIR, AND FULLY TEST YOUR ELECTRIC MOUTH FOR A FLAT FEE OF $15.00. THIS FEE INCLUDES RETURN POSTAGE (INSURED). THE SERVICE DEPARTMENT IS AVAILABLE VIA TELEPHONE BETWEEN THE HOURS OF 2-5 PM EASTERN STANDARD TIME MONDAY THRU FRIDAY. PLEASE CALL (203)354-9375. DO NOT CALL THE 800 SALES ORDER NUMBER FOR SERVICE INFORMATION BECAUSE YOUR CALL CAN NOT BE TRANSFERRED TO THE SERVICE DEPARTMENT FROM THAT LINE.

IF YOU ARE RETURNING ADDITIONAL KITS TO BE TESTED IN CONJUNCTION WITH THIS KIT PLEASE CHECK THE APPROPRIATE ASSEMBLY MANUAL FOR THE RATES WHICH APPLY TO ADDITIONAL ITEMS RETURNED.

DO NOT RETURN ANY KITS INSTALLED IN CABINETS OF ANY KIND. ADDITIONAL CHARGES PLUS A DELAY WILL BE NECESSARY IF YOU RETURN THE KIT INSTALLED IN A CABINET.

NOTE: PRICES QUOTED ABOVE APPLY TO CUSTOMERS LIVING IN THE USA. ADDITIONAL POSTAGE IS REQUIRED IF SHIPMENT IS TO MADE OUTSIDE THE USA. CONSULT PLACE OF PURCHASE FOR REPAIR PRICES IF PURCHASED OUTSIDE OF THE USA.

IMPORTANT

PRICES QUOTED ABOVE COVER THE COST OF ALL PARTS AND LABOR EXCEPT THOSE DESTROYED BY THE USER. ALL KITS MUST BE FULLY ASSEMBLED AND REMOVED FROM ANY CABINET. IF ADDITIONAL CHARGES ARE NECESSARY YOU WILL BE NOTIFIED PRIOR TO ANY WORK BEING DONE. NETRONICS WILL NOT SERVICE ANY UNITS PURCHASED AS PRINTED CIRCUIT BOARDS ONLY.